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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/087,074 | 03/01/2002 | Cynthia D. Walton | 10125 | 1970 |
| 28006 | 7590 | 05/18/2005 | EXAMINER | |
| HERCULES INCORPORATED HERCULES PLAZA 1313 NORTH MARKET STREET WILMINGTON, DE 19894-0001 | | | SELLERS, ROBERT E | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 1712 | |

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/087,074

Applicant(s)

WALTON ET AL

Examiner

Robert Sellers

Art Unit

1712

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 6, 10, 12-14 and 25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 6, 10, 12-14 and 25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

1. The minor problems illuminated in the non-Final rejection mailed October 14, 2005, page 2, paragraph 2 have been corrected in the amendment filed April 13, 2005.
2. The citation of Japanese Patent No. 60-2963 is corrected in the attached Notice of References Cited, Form PTO-892.

The text sections 102(b) and 103(a) of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 12, 14, 16 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by European Patent No. 407,157 (European '157).

Claims 1, 10 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Sasaki et al. Patent No. 4,498,957 or Japanese Patent No. 55-144050 (Japanese '050), 56-312 (Japanese '312), 53-39332 (Japanese '332) or 57-51772 (Japanese '772).

Claims 1, 12, 14, 16 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese Patent Nos. 60-2963 (Japanese '963) or 46-27792 (Japanese '792).

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by European Patent No. 488,949 (European '949).

Claims 6 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over European '157 and Japanese '963, '332 and '772 in view of Polish Patent No. 130,185 and the Nippon Setchaku Kyokaishi article by Fukuda et al.

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Claim 25 was inadvertently omitted from the rejections involving claim 14.

Claim 25 defines the same limitation as claim 12 but is dependent upon claim 14.

The rejections are maintained for the reasons of record set forth in the previous Office actions. The arguments filed April 13, 2005 have been considered but are unpersuasive.

3. European '157 (page 8, Table 1) shows trimethylolpropane polyglycidyl ether.

The polyglycidyl ether is generic to a triglycidyl ether according to page 2, line 39.

Trimethylolpropane contains three hydroxyl groups which upon the dehydrohalogenation of each hydroxyl group with an epihalohydrin yields three epoxy groups, or a triglycidyl ether. Note that European '949 (page 3, lines 56-57) more concisely designates the epoxy resin as trimethylolpropane triglycidyl ether.

4. Independent claim 1 and claims 10 and 14 dependent thereon merely require polyamidoamine A which embraces the aromatic polyamides of Sasaki et al. and Japanese '050 and '312 as well as the polyamidoamines of Japanese '772 and '963 and the polyamides of Japanese '332 and '963.

5. European '949 clearly requires a polyamidoamine on page 4, lines 29-37.

6. European '157 and Japanese '963, '332 and '772 each set forth polyamidoamines. One of ordinary skill in the art would have been motivated to employ the adipic acid-diethylenetriamine copolymer of the Polish patent and Fukuda et al. as the polyamidoamines of European '157 and Japanese '963, '332 and '772 in order to improve the heat resistance (Fukuda et al., AB, lines 9-10).

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Sellers whose telephone number is (571) 272-1093. The examiner can normally be reached on Monday to Friday from 9:30 to 6:00.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).



Robert Sellers
Primary Examiner
Art Unit 1712